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TITLE: Suspension for coating oxide cathodes of gas-discharge lamps - contains carbonate of alkaline earth metals, basic aluminium salt, magnesium zirconate, tungsten and water

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ABSTRACTED-PUB-NO: SU 858141B

BASIC-ABSTRACT:

Suspension for coating the oxide cathodes of gas-discharge lamps contains (I) a **ternary carbonate of alkaline earth metals**, (II) a basic complex aluminium salt, and (III) **water**. Stability of the light emission is enhanced by addition of (IV) magnesium zirconate and (V) tungsten. The compsn. contains (in wt.%): (I) **45-50**, (II) 0.1-4, (III) **40-54**, (IV) 0.6-4, and (V) 0.3-2.

The suspension is applied onto the cathode and heated; (II) is decomposed at 300-500 deg; ternary carbonate of Ca, Sr and Ba starts to decompose above 600 deg. The service life of the lamp is at least 15000 h. Bul.31/23.8.81 (3pp)

TITLE-TERMS: SUSPENSION COATING OXIDE CATHODE GAS DISCHARGE LAMP CONTAIN
CARBONATE ALKALINE EARTH METAL BASIC ALUMINIUM SALT
MAGNESIUM
ZIRCONATE TUNGSTEN WATER

DERWENT-CLASS: L03 X26

CPI-CODES: L03-C02A;

EPI-CODES: X26-A02D;